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PATENT  
P57051

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JUN-HYUK LEE

Serial No.: 10/826,320

Examiner: VU, MICHAEL T

Filed: 19 April 2004

Art Unit: 2683

For: PERFORMING TERMINAL AUTHENTICATION AND CALL PROCESSING IN  
PRIVATE WIRELESS HIGH-SPEED DATA SYSTEM

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references:

**FOREIGN PATENT REFERENCE:**

- Japanese Patent Publication No. 08-214358 to Omiya, *et al.*, entitled *ROAMING METHOD TO PRIVATE SYSTEM FOR MOBILE COMMUNICATION TERMINAL*, published on 20 August 1996 (with English abstract).
- Japanese Patent Publication No. 2003-111124 to Ishii, entitled *MOBILE NETWORK SYSTEM*, published on 11 April 2003 (with English abstract).
- Japanese Patent Publication No. 10-098774 to Linder, entitled *METHOD AND DEVICE FOR AUTHENTICATING SUBSCRIBER AND/OR CODING INFORMATION*, published on 14 April 1998 (with English abstract).
- Japanese Patent Publication No. 07-023463 to Matsutaka, *et al.*, entitled *MOBILE BODY COMMUNICATION SYSTEM*, published on 24 January 1995 (with English

abstract).

- Japanese Patent Publication No. 05-219053 to Suzuki, *et la.*, entitled *AUTHENTICATION METHOD*, published on 27 August 1993 (with English abstract).
- Japanese Patent Publication No. 11-252612 to Inoue, entitled *RADIO PRIVATE BRANCH OF EXCHANGE AND RADIO COMMUNICATION SYSTEM*, published on 17 September 1999 (with English abstract).

#### **OTHER DOCUMENTS:**

- Japanese Office action for Japanese Patent Application No. 2004-131759, issued on 20 June 2006.

#### **DISCUSSION**

**Omiya JP'358**, according to the Japanese Office action in applicant's Japanese patent application Serial No. 2004-131759, discloses that a public network service control function realizing device for holding authentication/position information or the like and realizing service control inside the public telecommunication network and a private network service control function realizing device for holding the position information or the like and controlling the service inside the private telecommunication network are connected by an electric signal line. Then, when a public network mobile communication terminal moves over mobile communication service areas within both networks, at the time of authentication/position registration, a fact that the authentication/position registration is requested in the different telecommunication network is reported between the devices for realizing both public and private service control functions and information required for the service control is mutually transferred.

**Ishii JP'124**, discloses that the locations of portable terminals and portable information terminals moved into a closed area from the outside are registered (location registration) in local base

stations from public base stations, and a server provides the terminals and with local service information through the base stations.

**Linder JP'774**, discloses that the method and device are for authenticating a subscriber and/or coding information, a mobile radio network (PLMN) for a subscriber of another communication network(CN) prepares protection parameters (SPAR) through an interface (DSS1+) connecting both communication networks, and a subscriber of the mobile radio network needs not registers itself in at least one subscriber data base(DB) of the mobile radio network. At this time, the subscriber of the other communication network is identified by a subscriber identification module(SIM) of a subscriber station (UPTD, DM) and recorded in the subscriber data base of the other communication network. Protection parameters for a subscriber recorded in a leased network are requested through an interface, prepared by an authentication device (AC) of the mobile radio network, and transmitted to the leased network through the interface.

**Matsutaka JP'463**, discloses that when a portable set moves from a radio zone to a radio zone, the portable set sets an extension number for a private network of a table to a portable set number of a position registration request to a private network PBX 12 via a private network base station and sends the result. The private network PBX 12 revises a zone of the portable set of a table being a content of a position registration management section into the private network base station being a current location from the public network being the location up to now, the content of the portable set number of the position registration request is revised to the public network number from the extension number of portable set by the table, and a public network mobile body I/F device sends the result through a mobile body control signal channel between the mobile body system of the public network and the private network PBX 12.

**Suzuki JP'053**, discloses that at the specific service request, a node stores an authentication key of a node and a recognition answer signal, sent back from a node at the time of the process of

a last service request, and the node puts a signal, generated by ciphering the recognition answer signal generated in the process of the last service request with the authentication key, in a service request signal and sends them. The node receives the deciphers the signal with the authentication key, performs certifying operation by collating the deciphering result with the stored authentication answer signal, and updates the authentication signal with the signal received from the node. Thus, the node stored the authentication answer used for the last communication process and the node stores the authentication answer and the authentication key of the node, so a request for the authentication key to the storage device of the node and an authentication request procedure to the node can be omitted.

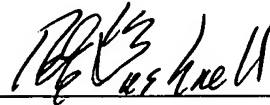
**Inoue JP'612**, discloses that a relay CS 18 is installed in a service area of a public CS 13 and is operated for the public CS 13 as if it were three public PS. A PS 19 is accessible to other PS 19 in a same enterprise and is directly accessible to a public PHS network 12 via a private CS 17, a private branch of exchange, the relay CS 18 and the public CS 13 within an area of a private CS 17 even at the outside of the service area of the private CS 17 from a place anywhere the enterprise.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

No fee is incurred by this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "R. E. Bushnell", is written over a horizontal line.

Robert E. Bushnell

Reg. No.: 27,774

Attorney for the Applicant

1522 "K" Street, N.W., Suite 300

Washington, D.C. 20005

Area Code: (202) 408-9040

Folio: P57051

Date: 7/11/06

I.D.: REB/ks

**INFORMATION DISCLOSURE STATEMENT****PTO-1449 (PAGE 1 OF 1)**

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GROUP 2683

**U.S. PATENT DOCUMENTS**

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

**FOREIGN PATENT DOCUMENTS****TRANSLATION**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	JP 08-214358	08/96	JAPAN			Abstract	
	JP 2003-111124	04/03	JAPAN			Abstract	
	JP 10-098774	04/98	JAPAN			Abstract	
	JP 07-023463	01/95	JAPAN			Abstract	
	JP 05-219053	08/93	JAPAN			Abstract	
	JP 11-252612	09/99	JAPAN			Abstract	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

Japanese Office Action of the Japanese Patent Application No. 2004-131759, mailed on 20 June 2006

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.